

[illegible]

$$\begin{aligned} (a+b)^2 &= a^2 + 2ab + b^2 \\ (a-b)^2 &= a^2 - 2ab + b^2 \\ a^2 - b^2 &= (a-b)(a+b) \\ (a+b)^3 &= a^3 + 3a^2b + 3ab^2 + b^3 \\ (a-b)^3 &= a^3 - 3a^2b + 3ab^2 - b^3 \\ a^3 - b^3 &= (a-b)(a^2 + ab + b^2) \\ a^3 + b^3 &= (a+b)(a^2 - ab + b^2) \\ a^4 - b^4 &= (a-b)(a^3 + a^2b + ab^2 + b^3) \\ a^5 - b^5 &= (a-b)(a^4 + a^3b + a^2b^2 + ab^3 + b^4) \end{aligned}$$

$$\begin{aligned} 58. & \frac{2a^2(b+c)^{2n-\frac{1}{2}}}{n(un^2-a^3-2a^2-a)} \cdot \frac{2a(b+c)^{n-1}}{a^2c-a(nc-a)} = \\ & \frac{6a^3(b+c)^{2n-1}}{2a(m^2-a^2-2a-1)} \cdot \frac{a^2c-amc+ac}{2a(b+c)^m-1} = \frac{a^2-b^2}{(a-b)(a+b)} \\ & \frac{(2a(b+c))^2-1^2}{2a(m^2-(a+1)^2)} \cdot \frac{ac(a-m+1)}{2a(b+c)^m-1} = \frac{a^2-b^2}{a^2-b^2} \\ & \frac{2a(m^2-(a+1)^2)}{(2a(b+c)^m-1)(2a(b+c)^{m+1}+1)} \cdot \frac{-ac(m-a-1)}{2a(b+c)^m-1} = 1 \\ & \frac{2a(m-a-1)(m+a+1)}{-c(2a(b+c)^m+1)} = \frac{2a(b+c)^m-1}{2a(b+c)^m-1} = 1 \end{aligned}$$

$$= \frac{\frac{a-1}{a^2-2a+1} + \frac{2(a-1)}{a^2-4} + \frac{4(a+1)}{a^2+a-2} + \frac{a}{a^2-3a+2}}{\frac{36a^3-144a-36a^2+144}{(a^2+27)(a+3)(a^2-3a+9)}}$$

$$(a-b)(a^2+ab+b^2) = a^3 + \underline{a^2b} + \underline{ab^2} - \underline{ba^2} - \underline{ab^2} - b^3 =$$